



FINAL
Examination Paper

(COVER PAGE)

Session : January 2013

Programme : Diploma In Information And Communication Technology (DICTN)

Course : ICT1104 : Database Management

Date of Examination : March 6, 2013

Time : 11:00am – 1:00pm Reading Time: Nil

Duration : 2 Hours

Special Instructions :

Answer any FOUR (4) questions.

Materials permitted : Nil

Materials provided : Nil

Examiner (s) : Ms. Leong Siok Jen, Light Lau Teng Lye.

Moderator : Dr. Vincent Khoo Kay Teong

This paper consists of 4 printed pages, including the cover page.

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DIPLOMA IN INFORMATION AND COMMUNICATION TECHNOLOGY
PROGRAMME (DICTN)

ICT 1104 : DATABASE MANAGEMENT
FINAL EXAMINATIONS: JANUARY 2013 SESSION

Instructions: This paper consists of **SIX (6)** questions. Answer any **FOUR (4)** questions in the answer booklet provided. All questions carry equal marks.

QUESTION 1

- a) Explain ANY **TWO (2)** advantages and **TWO (2)** disadvantages of database approach. (8 marks)
- b) Briefly explain **FIVE (5)** types of data types used in attributes structure with appropriate example. (10 marks)
- c) Differentiate between primary key and foreign key. Use examples to support your argument. (7 marks)

QUESTION 2

- a) Briefly explain **FOUR (4)** types of Form Control in MS Access. (10 marks)
- b) Identify and explain **FIVE (5)** types of users who are involved in Database Management Systems. (10 marks)
- c) Give **FIVE (5)** business applications that use Database Management Systems in our daily life. (5 marks)

QUESTION 3

- a) Briefly explain the **FOUR (4)** primary MS Access Objects. (8 marks)
- b) List and explain in a proper order the anatomy of reports. (9 marks)
- c) Name and explain the **FOUR (4)** techniques used to reduce error in data entry process. (8 marks)

QUESTION 4

ReliableTravel is a newly start-up travel agency. The management would like to have a database system to keep track of all the business operations. The database system stores the following information

- Each tour would be handled by one tour guide but a tour guide can guide many tour.
- Customer can book one or more tour and a tour may have many customer booking it.

- a) Draw an Entity Relationship Diagram (ERD) for the above scenario. (10 marks)
- b) Produce a relational model for the above scenario. (10 marks)
- c) MS Access support **TWO (2)** types of sub form. Name and explain the sub forms. (5 marks)

QUESTION 5

- a) Explain what is normalization and the benefits it provides. (5 marks)
- b) The relation below represent a scenario in a travel agency. One customer can order many travel packages and a travel package can also be order by many customers.

Travel(travel_code, travel_desc, cust_id, cust_name, cust_telno, travel_price, booking_date, staff_serve)

travel_code	travel_desc	cust_id	Cust_name	Cust_telno	travel_price	Booking_date	staff_serve
T01	Hong Kong Deluxe	C111	Alice	012-4419980	18000.00	1/1/2011	Cindy
T02	Europe Honeymoon	C111	Alice	012-4419980	30000.00	5/1/2011	Mary
T03	Thailand shopping	C546	Mrs. Chan	03-7772312	600.00	5/1/2011	Mary
T03	Thailand shopping	C115	Mr. Lee	03-4433112	600.00	10/1/2011	Peter

- i) Identify the insertion, deletion and modification anomalies for the relation above. (9 marks)
- ii) Normalise the table to 3NF. (11 marks)

QUESTION 6

Skybeauty has customers who book for facial appointment. After the booking information would be entered into the THREE (3) tables below:

Facial (facial_code, type, price)

Customer (cust_no, name, age, address, gender)

Booking (cust_no, date_in, date_out, room_no)

Write an SQL statement for the following.

- a) List all the male customers. (3 marks)
- b) Insert a new customer record into the customer table. (3 marks)
- c) Delete the facial type “Anti Aging” from the facial table. (3 marks)

Based on the same table above, define the queries for the following requests in design grid form (Query Design View) for questions, (d), (e) and (f)

- d) List out all the customer names who have booked for facial from 02/02/2012 till 05/10/2012 sort it according to descending order. (6 marks)
- e) Define a parameter query to update the facial price information by 30% based on facial type entered. (5 marks)
- f) Delete all records with the facial type “Anti Acne” from the database.(5 marks)

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